



10-07-03

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**APPLICANTS:** Michael Z. Hu

**DOCKET NO.:** 1066.0

**SERIAL NO.:** 10/623,395

**ART UNIT:**

**FILED:** July 18, 2003

**EXAMINER:**

**TITLE:** Method for Making Fine and Ultrafine Spherical Particles of Zirconium Titanate and Other Mixed Metal Oxide Systems

**INFORMATION DISCLOSURE STATEMENT under 37 CFR 1.56 and 1.97**

Assistant Commissioner for Patents  
Washington, D. C. 20231

Sir:

Submitted herewith on Forms PTO/SB/08A and PTO/SB/08B is a listing of documents known to applicant in order to comply with applicant's duty of disclosure pursuant to 37 C.F.R. 1.56. A copy of each document is being submitted herewith to comply with the provisions of 37 C.F.R. 1.97 and 1.98.

Applicant presents these references that the Patent Office may determine any relevancy thereof to the presently claimed invention.

Applicant respectfully requests that the references be expressly considered during the prosecution of the subject application and made of record therein and appear among the "references cited" on any patent to issue therefrom.

Applicant also requests that an initialed copy of Forms PTO/SB/08A and PTO/SB/08B be returned in accordance with MPEP Section 609.

Respectfully submitted,

*Shelley L. Stafford*

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**Complete if Known**

Application Number	10/623.395
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Filing Date	7-18-2003
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First Named Inventor	Hu, Michael Z.
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### Art Unit

Examiner Name

Attorney Docket Number	1066.0
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Signature**

Date  
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		Filing Dat	7-18-2003
		First Named Inventor	Hu, Michael Z.
		Art Unit	
		Examiner Name	
Sheet 2	of 6	Attorney Docket Number	1066.0

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	4	MAHANDRIMANANA, A. et al., "Nonhydrolytic Sol-Gel Process: Aluminum and Zirconium Titanate Gels," 1997, p. 89-93, 8	
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	6	AZOUGH, F. et al., "The Relationship Between the Microstructure and Microwave...", J. Mater. Sci., 1996, p. 2539-2549, 31	
	7	BATEMAN, C. et al., "CAD Representation of the Systems ZrO <sub>2</sub> -MgO-TiO <sub>2</sub> and...", Physica B, 1988, p. 122-128, 150	
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	9	BIANCO, A. et al., "Zirconium Titanate Microwave Dielectrics Prepared via Polymeric Precursor Route," J. Eur. Cer. Soc., 1999, p. 959-963, 19	
	10	BHATTACHARYA, A. et al., "Low-temperature Synthesis and Characterisation of Crystalline Zirconium Titanate Powder," Mat. Lett. 1994, p. 247-250, 18	
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	12	BHATTACHARYA, A. et al., " Sol Gel Preparation, Structure and Thermal Stability...", J. Mater. Sci., 1996, p. 267-271, 31	
	13	BONHOMME-COURY, L. et al., "Preparation of Al <sub>2</sub> TiO <sub>5</sub> -ZrO <sub>2</sub> Mixed Powders via Sol-Gel Process, J. Sol Gel Sci. & Technol., 1994, p. 371-375, 2	

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	14	CHEN, D. et al., "Hydrothermal Synthesis and Characterization of Crystalline ZrxTi1-xO4...", J. Mater. Sci. 1999, 1379-1383, 34	
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	23	IKAWA, H. et al., "Phase Transformation and Thermal Expansion...", J. Am. Ceram. Soc., 1988, 120-27, 71 (2)	

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	24	ISOBE, T. et al., "Mechanochemical Synthesis of ZrTiO <sub>4</sub> Precursor From Inhomogeneous Mixed Gels," Mater. Res. Soc. Symp. Proc., 1994, 273-77, 346	
	25	KARAKCHIEV, L. et al., "Low-Temperature Synthesis of Zirconium Titanate," Inorg. Mater., 2001, 386-390, 37	
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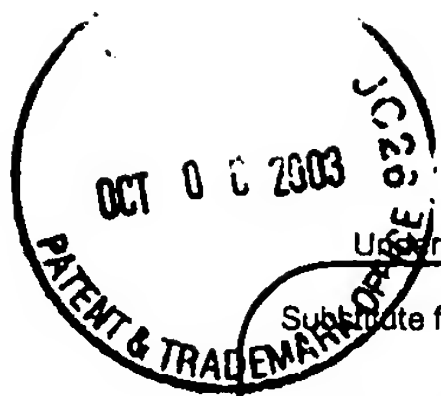
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	34	MONTANARO, L. et al., "Preparation of Microspheres from an Alumina-Zirconia Sol," Ceram. Bull., 1989, 1017-20, 68(5)	
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	44	SHAM, E. et al., "Zirconium Titanate from Sol-Gel Synthesis: Thermal Decomposition and Quantitative Phase Analysis," J. Solid State Chem., 1998, 225-32, 139	
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